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## System and Software Requirements Definition (SSRD)

Project Title: LEMA Pilot School Integrated Family Accountability System.

Team No.: 4

Team Members & Roles	Name	Role
	Teawon Han	Project Manager
	Zhen Huang	Feasability Analyst
	Kimberly Krause	IIV&V
	Xiaoli Ma	Life Cycle Planner
	Ziming Wei	Operational Concept Engineer
	Ian Williams	Requirements Engineer
	Ying Yang	Life Cycle Planner

Purpose	The purpose of the SSRD is to transfer all of the developer-client communication (especially win conditions) into requirements that represent the developers' commitment to all stakeholders. It also represents the set of features that have been agreed upon by all stakeholders.

Status	<p>The current version is the second version of the Foundation Phase.</p> <p>The most current win conditions that have been agreed upon have been translated into requirements. These same win conditions have been prioritized based on the client's desire, the implementation difficulty, and the level of dissatisfaction experienced if each feature was not implemented, as well as a new metric that lowers the importance of the recently added conditions (due to their late arrival).</p>
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Date	Author	Version	Changes Made	Rationale
10/2/2011	Ian Williams	1.1	First version	N/A
10/5/2011	Ian Williams	1.2	Added many requirements in all categories.	Document all current requirements so that the stakeholders can come to an agreement on what will be done.
10/6/2011	Ian Williams	1.3	Entered all Win Conditions into Prioritization Sheet.	Need to create chart to determine order of priority.
10/7/2011	Ian Williams	2.1	Finalized formatting for turnin.	We are in the valuation phase.
10/14/2011	Ian Williams	2.2	Updated based on comments from team and IIV&V	IIV&V found some issues with some requirements.
10/17/2011	Ian Williams	2.3	Addressed comments from TAs and added client feedback about dissatisfaction if each requirement is not implemented.	Clean up for ARB meeting
10/23/2011	Ian Williams	2.4	Integrated feedback from ARB meeting, including shuffling requirements and eliminating unuseful ones.	Next version of the FC package.
11/19/2011	Ian Williams	3.1	Integrated feedback from ARB meeting and final FC turnin. Added many new Win conditions and requirements, but added a new metric that lowers many of their relative importance because they were added so late.	Draft version of DC package due.
12/4/2011	Ian Williams	3.2	Integrated feedback from IIV&V. Spent more time looking at the newest arrivals and whether they are risky enough to warrant a penalty for being added late.	Final version of DC package due.

Id (Autogenerated) CR #	Requirement Name	Description	Priority	Input(s)	Source(s)	Output(s)	Destination(s)	Precondition(s)	Postcondition(s)	Win-Win Agreement(s)	Is Evolutionary?
CR - 1	Multi-School Support	In the future, there may be more than one LEMA school, so school codes must be added to each student's data so that aggregate data can be retrieved per school.	M (Must have)	Student grades, attendance	Teacher input	Aggregated data is displayed only for the current school	GUI	Teacher has entered student grades consistently. Users of any role are viewing a report.	Based on a school code, data is aggregated and displayed only in relation to that school.	WC_730	Yes
CR - 2	Scatterplot Reporting	The system must show scatterplots that show students where they stand for attendance and grades.	M (Must have)	Student attendance, grades	Teacher input	One scatterplot showing student grade placement and another showing tardies and absences	GUI	Users of any role access a grade report page or attendance report page. Teacher has consistently entered student grades/attendance information.	Scatterplot showing data for all students in the class so that the student can see where he/she stands in relation to everyone else.	WC_753	No
CR - 3	Reservation System	System must keep track of all materials, such as books, that have been borrowed by students.	M (Must have)	Materials borrowed, name of student, date of the first day borrowed, expected return date	Teacher input	All input data in tabular form, with red dates indicating an overdue material.	GUI, Database	Teache must have entered all items specified in the Input column. User must be in the teacher role or full-access role and must be viewing the Reservation system page.	Newly entered data is displayed in the table.	WC_111	No
CR - 4	Statistical Data	System must have aggregate student data calculations such as average and standard deviation for grades.	M (Must have)	Student grades	Teacher input	A summary table indicating said calculations.	GUI	Teacher must have entered student grades consistently. User must be viewing a page that shows a grade report.	Summary table is populated with aggregate student data.	WC_97, WC_71	No
CR - 5	Pie Chart for Grade Magnitude	System must have a chart that shows how much of a student's grade is made up of each category of work (projects, test, hw, etc.)	M (Must have)	Category weights	Teacher input	A pie chart that summarizes category weights.	GUI, Database	Teacher must have entered class category weights. User must have a teacher or full-access role and must be viewing an attendance report page.	Pie chart displays a number of pieces equal to the number of categories and each piece is as large relative to the others as the numbers are in the database.	WC_91	No
CR - 6	Daily Reporting	System must have the ability to update student attendance reports daily and grade reports weekly.	M (Must have)	Student grades, attendance.	Teacher input	A series of reports (defined in other requirements) that summarize student behavior.	GUI, Database	Teacher must have consistently entered student data. User can be in any role, but must be viewing either an attendance or grade report.	Charts and tables display student data as entered in the database by the teachers.	WC_89	No
CR - 7	Student Progress Over Time	System must show data for student GPA, number of credits completed, and attendance rate for the current term and for previous months	M (Must have)	Student grades, attendance.	Teacher input	A performance meter report that displays bars (or some other intuitive symbol) indicating how well a student is performing in each metric.	GUI, Database	Teacher has entered in student information consistently for the term, and the user must be viewing the performance report in any role.	Performance meter bar fills up according to the metric it is reporting on (for example, a performance meter bar for credits would show half-full for the average student who has just finished his/her second year of classes)	WC_85	No

CR - 8	Data Format	Number of missing assignments, tardies, and absences must be a whole number, not a percentage.	M (Must have)	Student attendance	Teacher input	Chart axes and table data are displayed as intuitive numbers.	GUI	Teacher has entered student data consistently. User of any role in viewing an attendance or grade report.	All numbers represent meaningful counts of metrics provided rather than percentages (whenever percentages would be poorly understood by the student)	WC_83	No
CR - 9	Track Parent Notifications	The system must keep track of all communication between teachers and between teachers/parents that goes through this system.	M (Must have)	Teacher communication requests.	Teacher input	A report indicating when teachers contacted parents as well as the subject of the conversation.	GUI	Teacher has sent messages to parent(s) through this system's communication page.	A Report is generated that displays teacher correspondence with parents.	WC_61	No
CR - 10	Parent Communication Page	The system must support sending email and text messages between teachers and teachers/parents.	M (Must have)	Teacher communication requests.	Teacher input	An email (or possibly a text message) to the designee with the specified message.	GUI, Database	Teacher has requested that a message be sent and that person's contact information resides in the database.	An email is sent to the designee with the text specified on the website.	WC_57	No
CR - 11	Levels of Access	The system must offer 5 levels of access: student, parent, 2 levels of teachers, and admin.	M (Must have)	Login credentials	Teacher, parent, or student input.	Limited access to the site for all but the highest role.	GUI	User has logged into the system.	The user is shown different portions of the site depending on their access level (all teachers can see student data, but they can also see the reservation page).	WC_101	No
CR - 12	Export from Easy Grade PRO	The system must accept a text file (including XML), parse the information it contains, and store that information in a database.	M (Must have)	Text file exported from Easy Grade Pro.	Teacher.	The information is uploaded to the database.	Database	Teacher has exported student data to a text file from the Easy Grade Pro application.	The student data is stored in the database.	WC_1051	No
CR - 13	Aggregate Attendance Data	In addition to showing attendance by student and class, the system ought to show attendance metrics (number of tardies and absences) by grade and school-wide.	W (Want to have)	Student data from teachers (exported as a text file from Easy Grade Pro)	Teacher	Report table showing attendance information.	GUI	Teacher has input student attendance data into Easy Grade Pro, exported it to a text file, and uploaded it into the system.	Student attendance data appears in the report tables.	WC_1104	No
CR - 14	Missing Assignments	The system must store missing assignments for each student separated by class	M (Must have)	Student data from teachers (exported as a text file from Easy Grade Pro)	Teacher	Report showing missing assignments	GUI, Database	Teacher has input assignment data into Easy Grade Pro, exported it to a text file, and uploaded it into the system.	Missing assignments are stored in the database and appear in the grade reports.	WC_1107	No
CR - 15	Behavior Referrals	The system could provide a web page for teachers to write/send referrals.	C (Could have)	Behavior referral information entered into web page fields	Teacher	A behavior referral document is generated	GUI	Teacher has filled out the input fields of the behavior referrals page	A document is generated with the referral information.	WC_1108	No
CR - 16	Achievement Awards	The system could provide a web page for teachers to write/send achievement awards to students	C (Could have)	Achievement award information entered into web page fields	Teacher	An award document is generated	GUI	Teacher has filled out the input fields of the achievement awards page	A document is generated with the award information.	WC_1109	No

CR - 17	Threaded Discussions	The system could provide a conversation mechanism for teachers to talk about each student (forum style). The system would store these conversations for each student	C (Could have)	Conversation text on the conversation page for a particular student.	Teacher	The post appears on the student's conversation tab.	GUI, Database	Teacher has posted text in the conversation tab for a student and submitted it.	This post appears on that student's page.	WC_1110	No
CR - 18	Calculate Attendance Metrics	The system could use attendance information to calculate the number of missed days, instructional minutes missed, and dollar amount wasted as a result.	C (Could have)	Student attendance data, cost of a class, and length of a class in minutes.	Teacher	Report table with the specified metrics.	GUI	Teacher inputs student attendance on a regular basis. The database is preloaded with a class' length in minutes and tuition cost.	A report appears that summarizes this attendance data on the attendance report page.	WC_1111	No
CR - 19	Failing Students	The system ought to report on students who are receiving multiple D's or F's	W (Want to have)	Student grade data	Teacher	Report table with student name and number of classes he is failing this term	GUI	Teacher inputs student grades on a regular basis.	A report appears on the grade reports page that shows each student's name followed by the number of classes each student is failing this term.	WC_1112	No
CR - 20	Performance Meter: Countdown	The system could be able to recognize/report when a student will no longer graduate on time.	C (Could have)	Student grade data, student credits completed data	Teacher	An indicator saying whether the student is able to graduate on time	GUI	Teacher inputs student grade data.	An indicator appears displaying a note if the student cannot complete his requirements on time	WC_1114	No
CR - 21	Show Metrics Every 5 Weeks	The system should keep track of student letter grades for each 5 week term of a semester (after 5 weeks, 10 weeks, 15 weeks, and final)	S (Should have)	Student grade data	Teacher	Report table shows the grades for each 5 week term of the semester	GUI	Teacher inputs student grade data consistently.	Report table displays the final letter grade for each class for every 5 week term of a semester.	WC_1120	No
CR - 22	Performance Meter: Core Classes	The system could track the number of math, science, and english classes left per student.	C (Could have)	Student grade data, credits completed data	Teacher	A report table showing the number of each class needed.	GUI	Teacher inputs student grade data.	A report table appears showing the number of math, science, and english classes remaining to graduate.	WC_1116	No
CR - 23	Performance Meter: Aggregate	The performance meter reports could run for each grade and school-wide	C (Could have)	Student grade data, student attendance data, credits completed data	Teacher	Performance reports show data for individual students and aggregates	GUI	Teacher inputs student grade data and student attendance data.	Each performance report displays aggregates for each grade and school-wide in addition to individual student data.	WC_1117	No
CR - 24	Missing Assignments to Grade Lost	The system could calculate the percentage of the total grade lost due to missing assignments	C (Could have)	Student grade data	Teacher	Report table that shows the percentage lost.	GUI	Teacher inputs student grade data.	Report table displays the percentage of the total grade lost due to missing assignments.	WC_1119	No



Id (Autogenerated) LOS #	Requirement Name	Description	Priority	Desired Level	Accepted Level	Measurable	Achievable	Relevant CR(s) #	Specific CR	Win-Win Agreements	Is Evolutionary?
LOS - 1	System response time	The system response time must be less than 6 minutes for each page (from time clicked to the end of a page load, as measured by the browser's "ready" event) 95% of the time, as measured by loading each page 10 times and averaging the times. The times are recorded by the computer, which can record the time of a button click and the time of the "ready" event.	M (Must have)	5 - 10 seconds	up to 6 minutes (but preferably much faster) 95% of the time.	Time starting from user event (clicking a button) to the end of a page load, as measured by the browser's "ready" event. This is measured by loading each page 10 times and averaging the times. The time is taken by the computer, which can record the time of the button click and the time of the "ready" event once the page has loaded.	Stable Internet, stable database, thorough testing	All capability requirements	All capability requirements	WC_87, WC_94	No
LOS - 2	Number of Students	The system must be able to scale up to 1000 students.	M (Must have)	1000 students	650	Number of students enrolled in the school for any given 4 year period.	Thorough testing, adequately-sized database.	All capability requirements	All capability requirements	WC_729	Yes





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Category	Id (Autogenerated) SR #	Requirement Name	Description	Priority	Win-Win Agreement	Is Evolutionary?
User Interface	SR - 1	GUI similarity to current tool (Easy Grade Pro) for teachers.	The client wants the UI look similar to the currently used Easy Grade Pro UI.	S (Should have)	WC_112	No
User Interface	SR - 2	User-Dependent Interface	Different roles are offered different interfaces. Teacher interface should be more number-oriented than parent/student interface, which is more graphical.	M (Must have)	WC_112	No
(Other) Software Interface	SR - 3	Interface with Scheduling Project	A different team will implement a scheduling system for LEMA. Our system should be able to access their data in order to show student progress (in terms of credits remaining).	S (Should have)	WC_107	No
Communications Interface	SR - 4	Provide online interface	Teachers, parents, and students must all be able to access the site through the Internet.	M (Must have)	WC_727	No
Communications Interface	SR - 5	Use Externally Hosted Database	The database should be hosted at a location external to the campus.	S (Should have)	WC_1141	Yes



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<b>NOTE:</b> There are no hardware interface requirements for this project. The project is a website.				
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Category	Id (Autogenerated) PR #	Requirement Name	Description	Priority	Win-Win Agreement
Transition Requirements	PR - 1	Teacher Training	There should be training session for the teachers at LEMA (at the very least, Beth and Scott)	S (Should have)	WC_980
Budget & Schedule	PR - 2	Overall Project Budget	A free implementation is desired, a \$500 implementation is acceptable, and a \$4000 implementation is barely possible.	M (Must have)	WC_100
Budget & Schedule	PR - 3	Project Schedule	The project must be completed within 24 weeks because that is the length of the CSCI577a and CSCI577b terms.	M (Must have)	WC_1106
Deployment Requirements	PR - 4	Deploy to an existing web server	The project could be deployed to the school's existing web server	C (Could have)	WC_984
Deployment Requirements	PR - 5	Browser Support	Internet Explorer, Firefox, and Chrome must all be supported	M (Must have)	WC_727
Transition Requirements	PR - 6	Teacher Feedback	Must show prototype to all LEMA teachers and have them provide feedback through Beth and Scott.	M (Must have)	WC_60





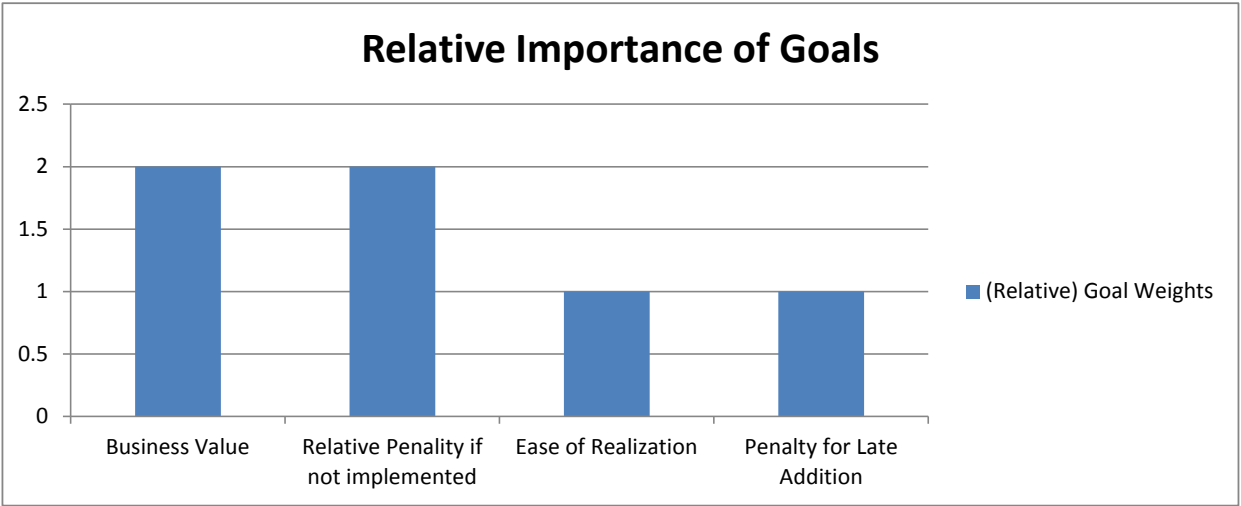


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<u>NOTE:</u> There are no computer hardware interface requirements for this project because it is only a website.	There are no language requirements for this project. We hae choses PHP and SQL.	There are no Support Environment Requirements for this project.		
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Project Goals/Expectations	Business Value	Relative Penalty if not implemented	Ease of Realization	Penalty for Late Addition		
(Relative) Goal Weights	2	2	1	1		

Select both rows above and insert a chart of your choice:  
Suggested Bar/Column - You may want to sort by 'Goal Weights' when creating the chart







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Overall Ranking	Win Condition ID	Project Goals/Expectations	Business Value	Relative Penalty if not implemented	Ease of Realization	Penalty for Late Addition
TOPSIS		(Relative) Goal Weights	2	2	1	1
		Direction of Improvement (+/-)	+	+	-	-
Score	WC_#	List of Win Conditions	For each requirement fill in it's relative weight <b>Suggested scale: (for Business Value) 1-10</b> (You may use a different scale for other requirements)			
0.8852	WC_730	Require School Codes	9	9	5	0
0.9556	WC_729	Must support 300-1000 students.	9	9	3	0
0.8907	WC_727	IE, Chrome, Firefox Support	8	9	4	0
0.6904	WC_112	EZ Grade Pro Interface	6	7	7	0
0.7279	WC_111	Reservation Page	7	6	5	0
0.6032	WC_107	Interface with Another Team	8	8	14	0
0.6528	WC_752	Real-time data entry feedback	7	8	11	0
0.7035	WC_101	5 Security Levels	9	9	11	0
0.7847	WC_100	Budget Requirements	9	6	4	0
0.8343	WC_97	Required Statistical Data	7	8	3	0
0.8634	WC_94	6 Minutes Max Response Time	9	8	5	0
0.7945	WC_91	Pie Chart for Category Weights	7	9	6	0
0.9199	WC_89	Daily Performance Report	9	9	4	0
0.4969	WC_87	Want 5 - 10 seconds response time.	7	8	19	0
0.8343	WC_85	Monthly and per-term aggregation	7	8	3	0
0.9925	WC_83	Student-understandable data	9	9	2	0
0.8914	WC_71	Students should be able to see their rank.	9	8	4	0
0.8852	WC_753	Scatterplots for student comparison	9	9	5	0
0.8676	WC_61	Keep track of parent notifications	8	8	4	0
0.8852	WC_60	Show prototype to all teachers to get feedback	9	9	5	0
0.5634	WC_57	Teacher communication via email, maybe text	7	8	15	0
0.6090	WC_980	Teacher training session	4	4	1.8	0
0.6675	WC_984	Deployment to the existing web server	8	4	5	0
0.7604	WC_1051	Import Easy Grade Pro data to our system.	8	7	6.8	0
0.5772	WC_1104	Attendance by student, class, grade level, school	9	9	5	1
0.9412	WC_1105	Teacher: absences/tardies per class monthly (track trend over time).	9	9	3.4	0
0.8395	WC_1106	Project must be completed within 24 weeks.	8	7	2.6	0
0.8030	WC_1107	Show missing assignments for all classes.	7	7	2.4	0
0.4579	WC_1108	Behavior referrals section.	7	6	6.8	1
0.4703	WC_1109	Achievement awards section.	6	6	5	1
0.2969	WC_1110	Threaded conversations between teachers recorded per student.	6	7	14.4	1

0.4551	WC_1111	Calculate missed days, instructional minutes, and dollar amount.	9	8	12	1
0.5227	WC_1112	Report on students who have multiple Ds and Fs.	7	7	4.2	1
0.4001	WC_1113	Quantify amount of work done in class.	8	6	11	1
0.4184	WC_1114	Performance meter: credit to age ratio deficient	6	8	10	1
0.4572	WC_1115	Performance meter: track A - G progress.	6	8	8	1
0.4684	WC_1116	Performance meter: number of maths, sciences, and english classes left.	6	8	7.4	1
0.4099	WC_1117	Performance meter: per grade and school-wide	6	9	12	1
0.4791	WC_1119	Convert number of missing assignments into percentage of grade lost.	7	7	6.8	1
0.7881	WC_1120	At the end of each 5 week term, show cumulative credits on all progress reports.	7	8	5.6	0

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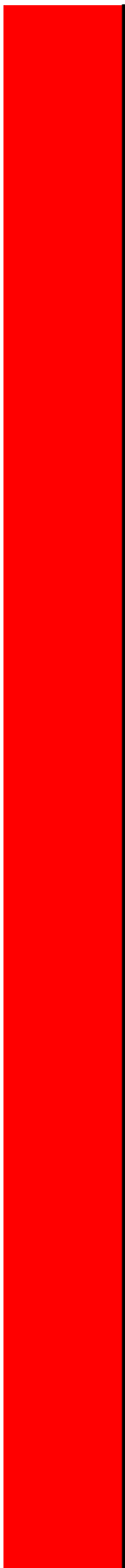




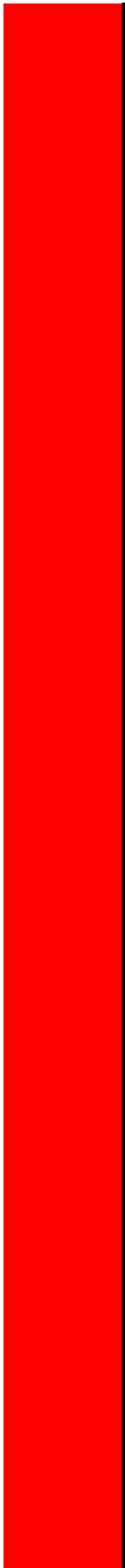


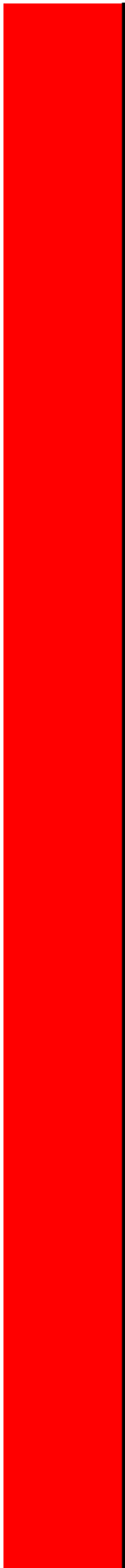


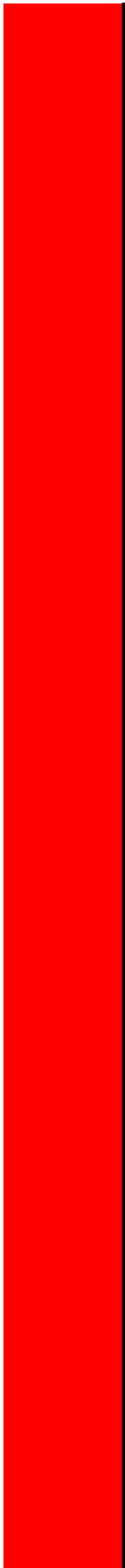

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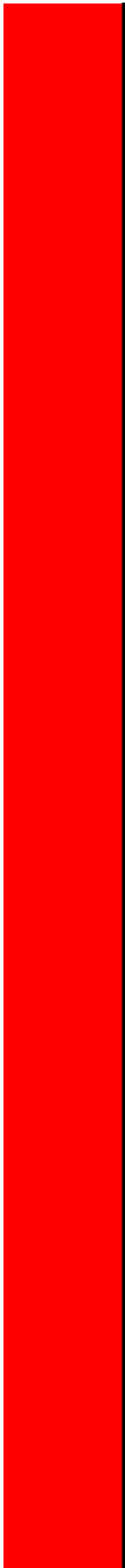


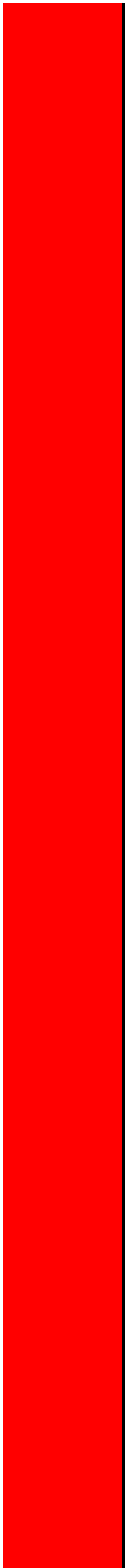


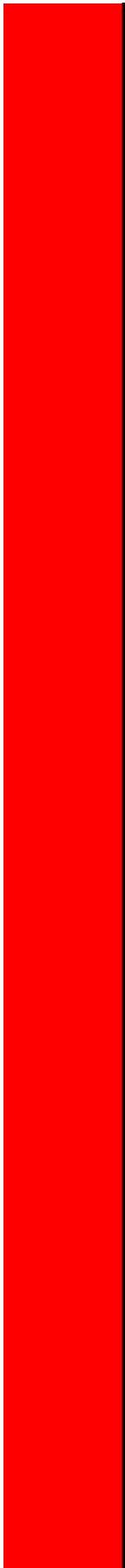


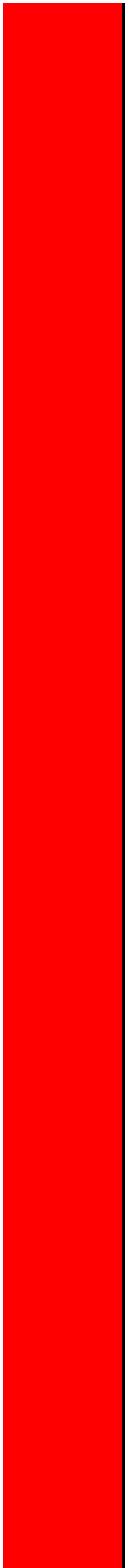


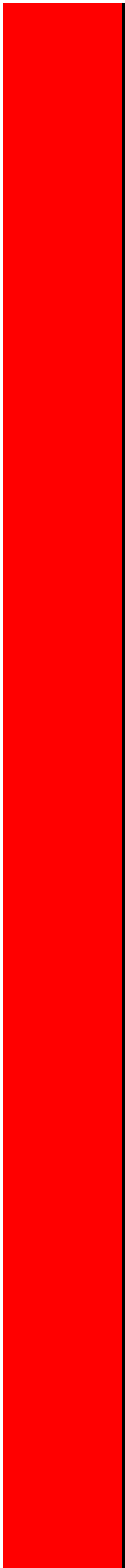




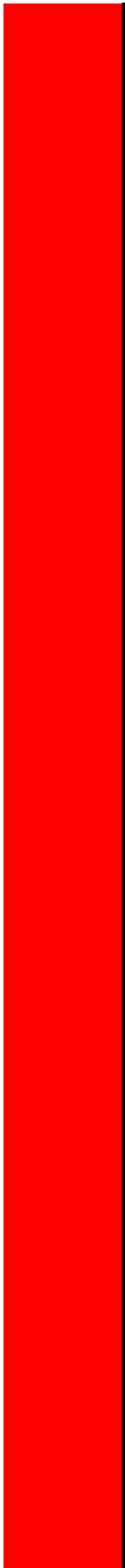


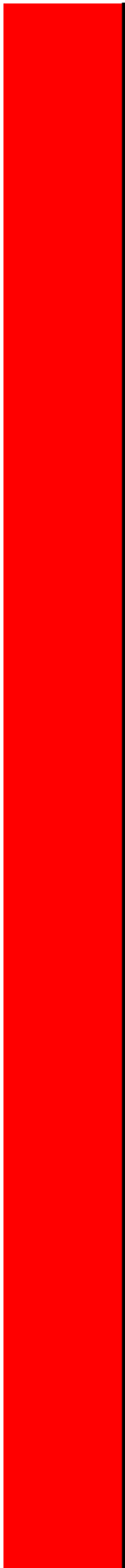


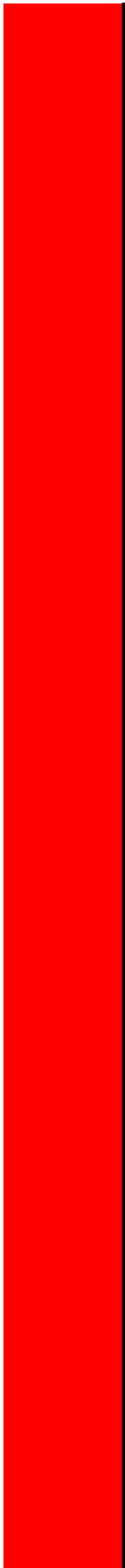


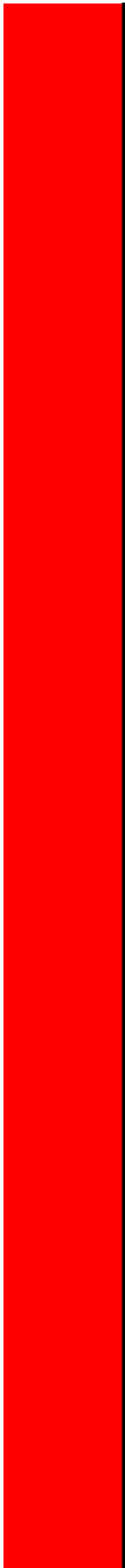


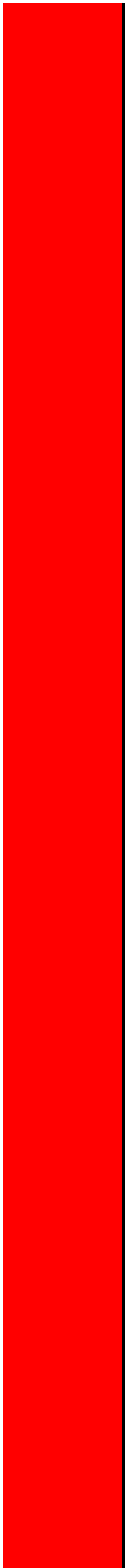


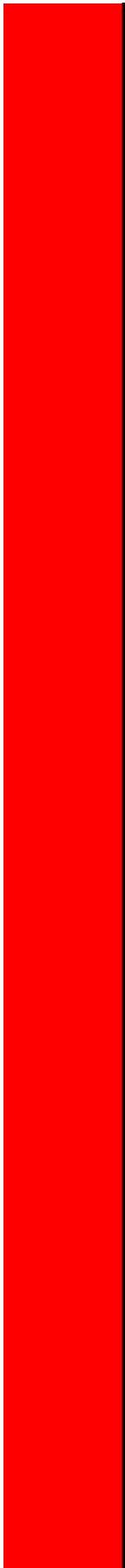


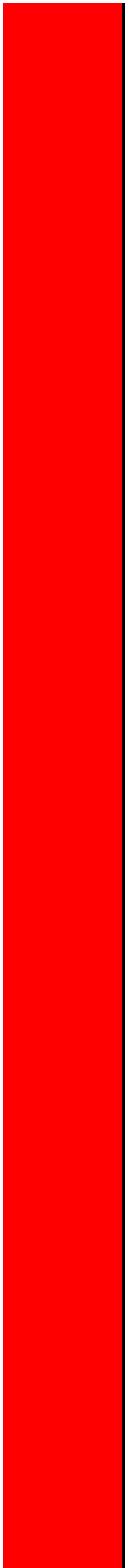


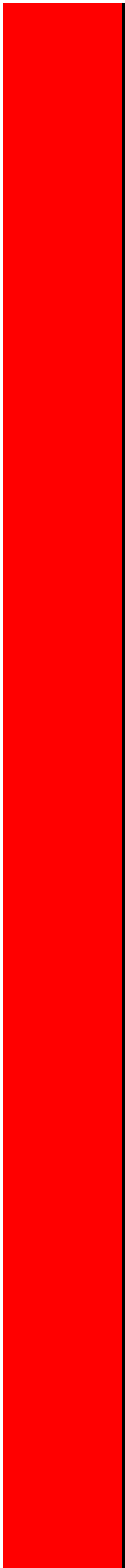




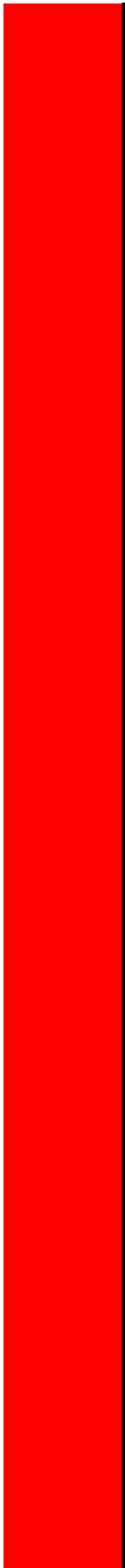


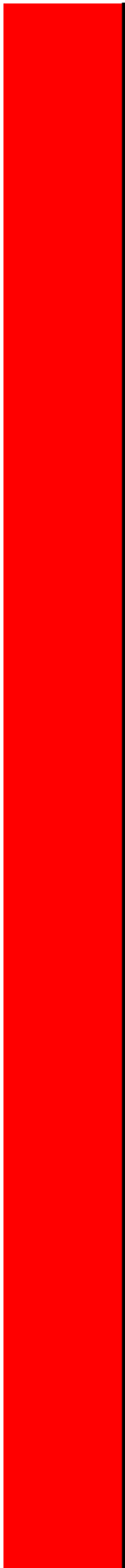


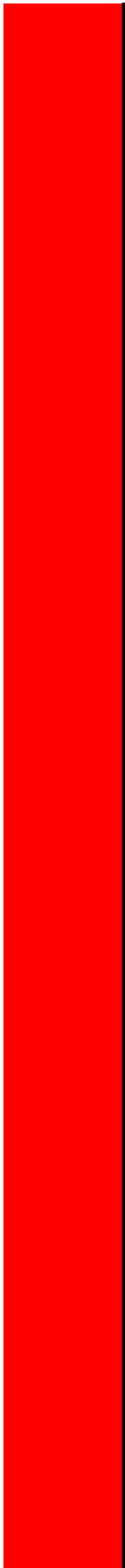


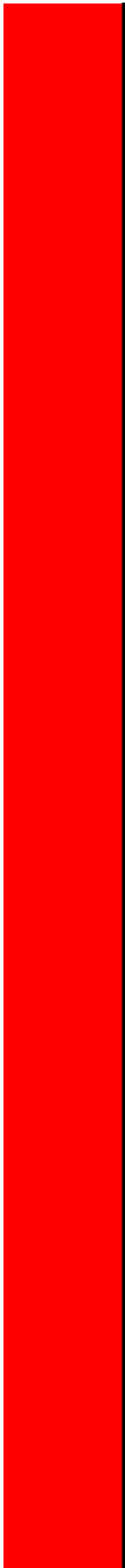


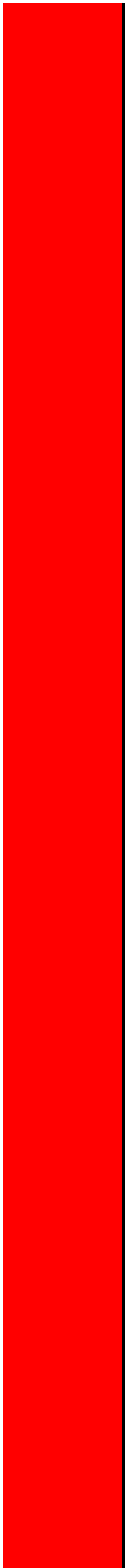


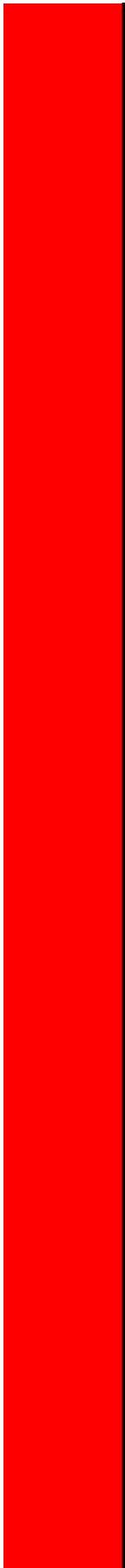


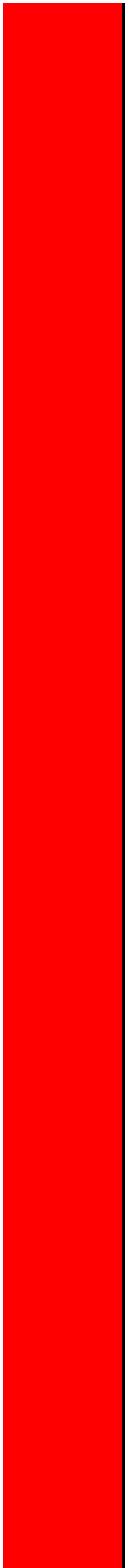


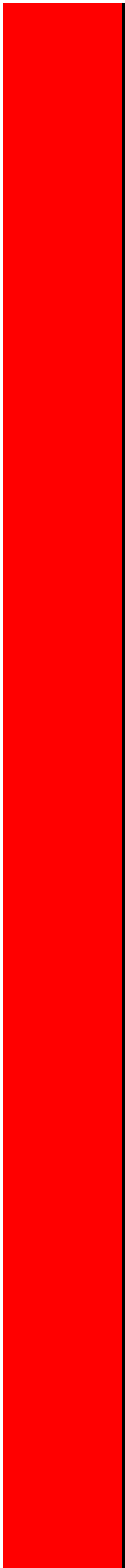




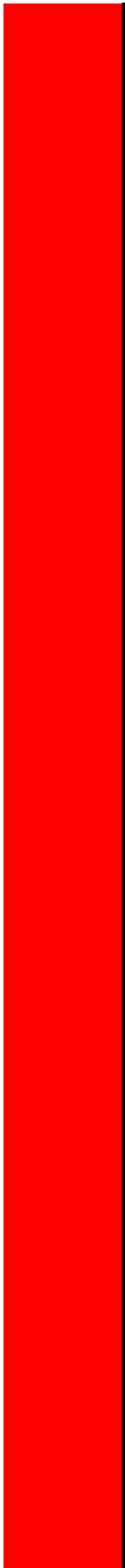


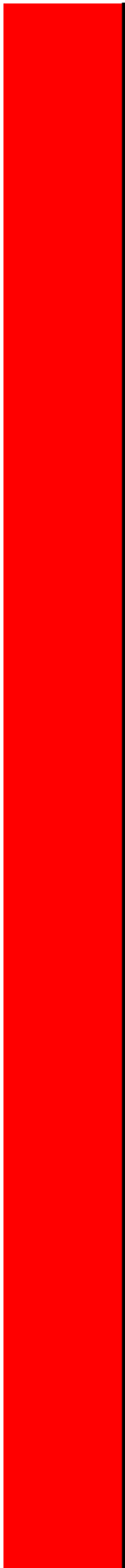


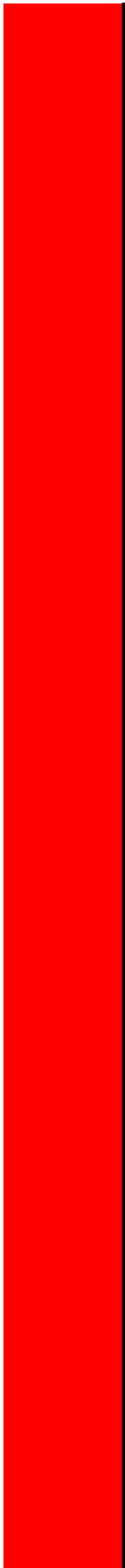


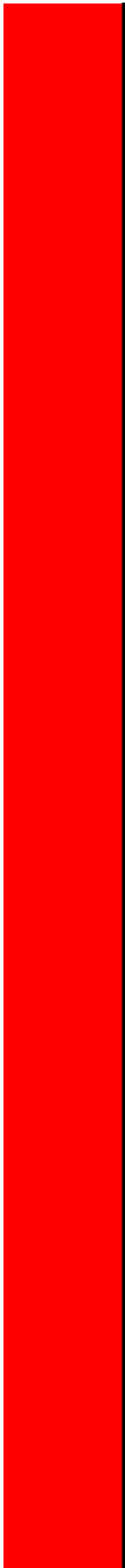


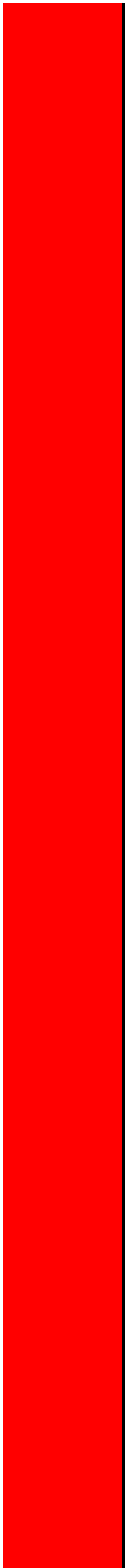


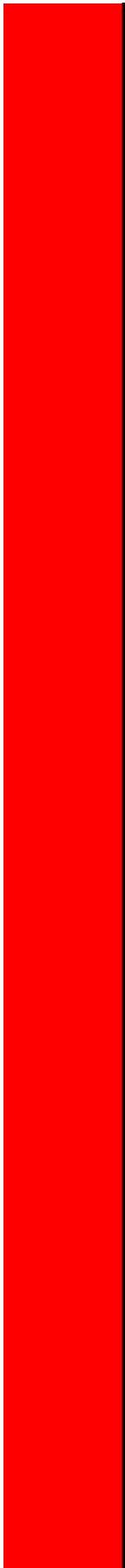


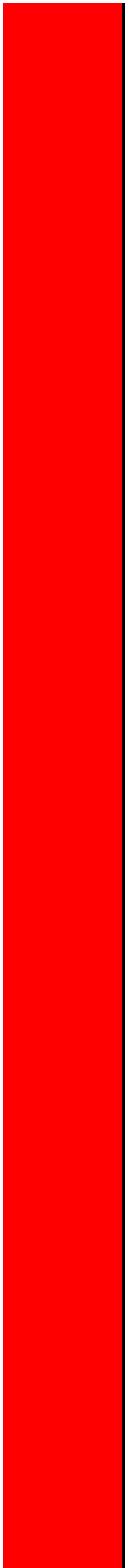


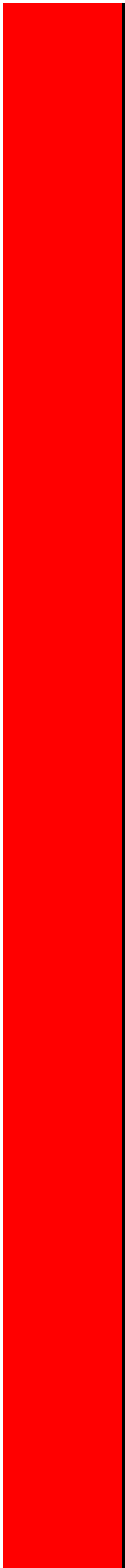




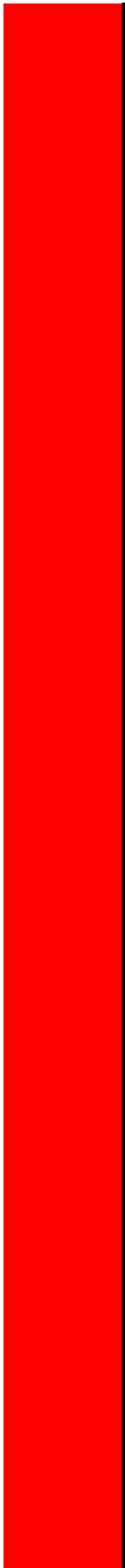


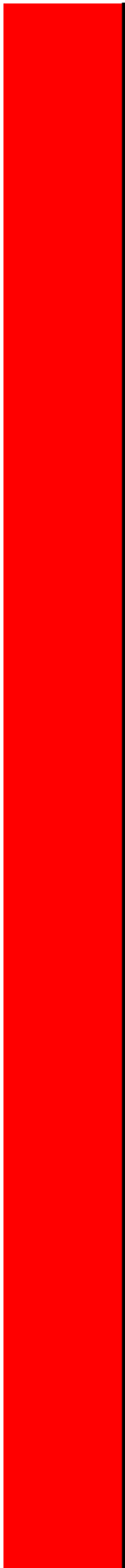


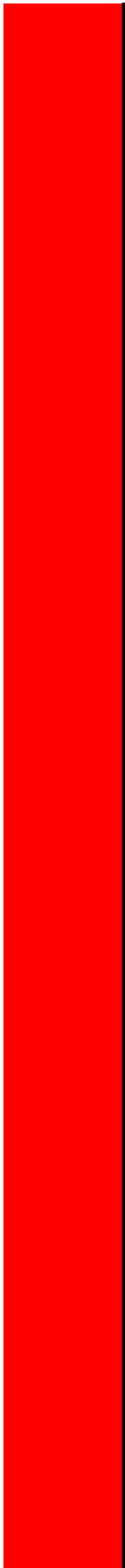


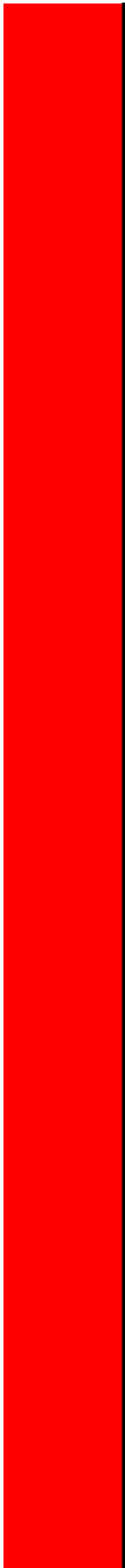


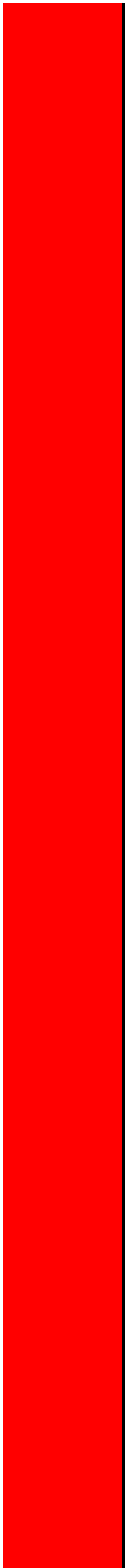


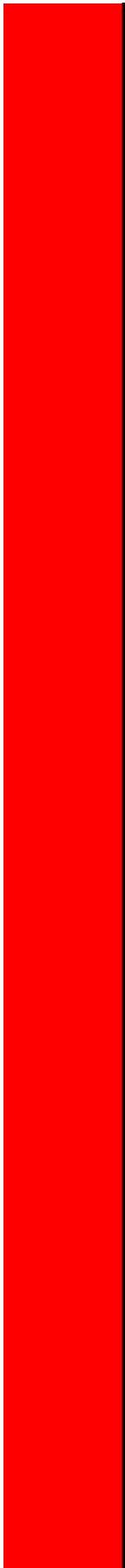


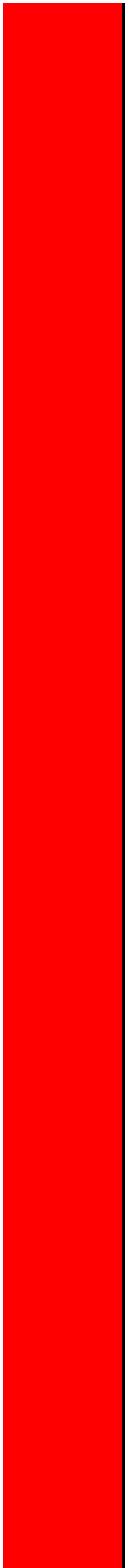


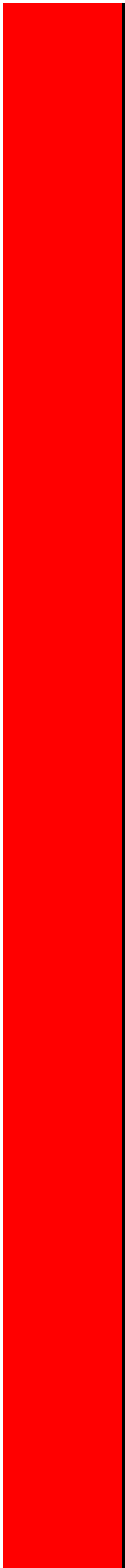




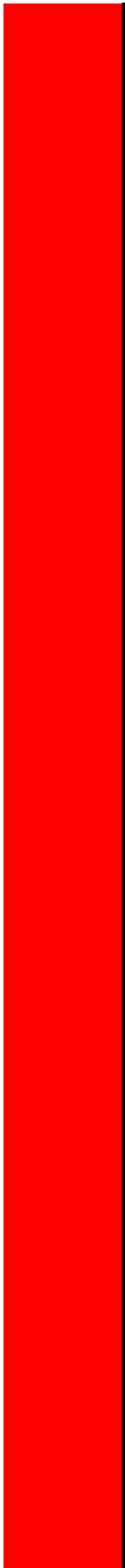


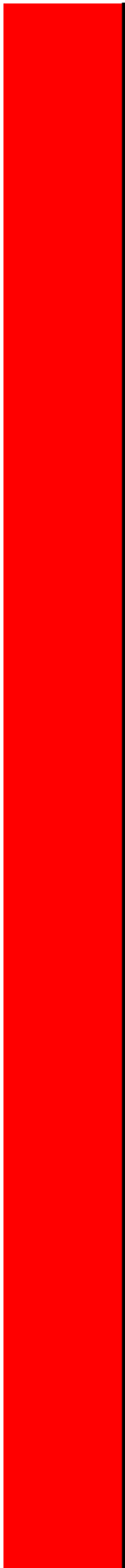


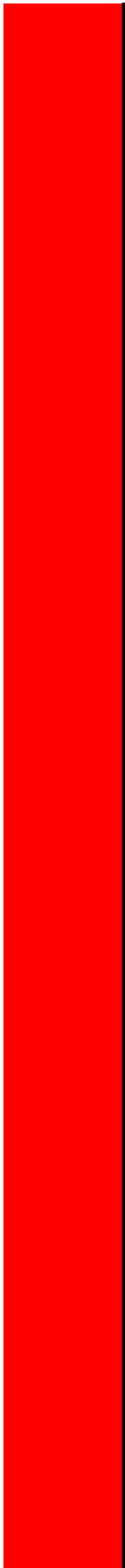


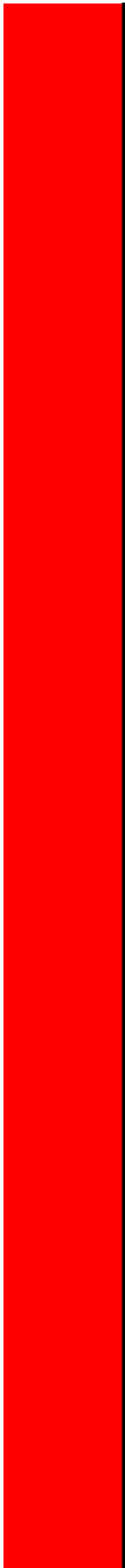


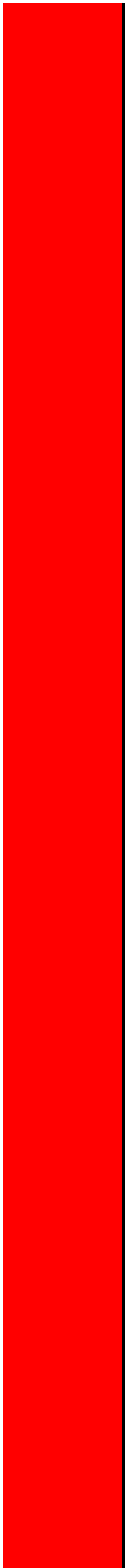


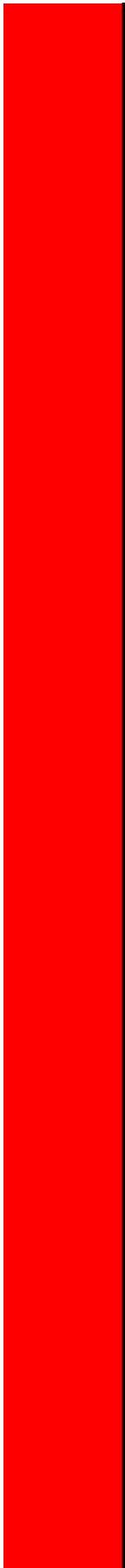


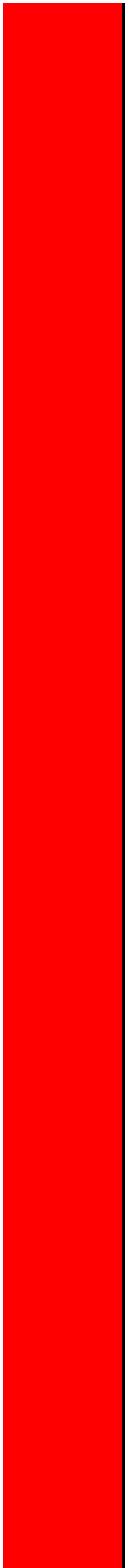


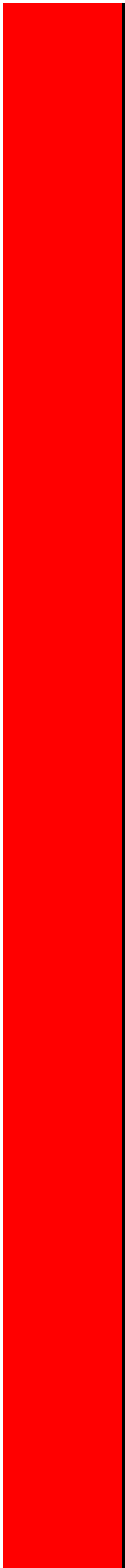




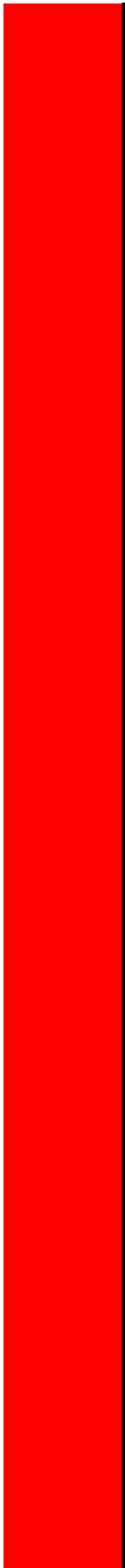


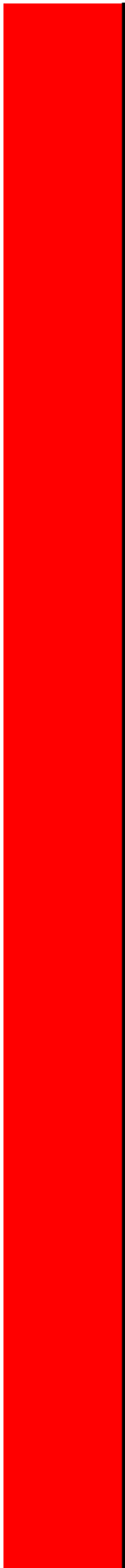


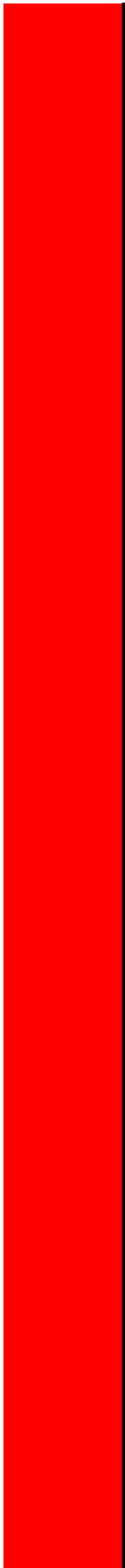


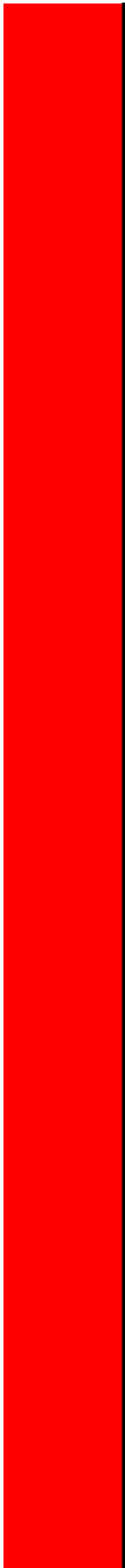


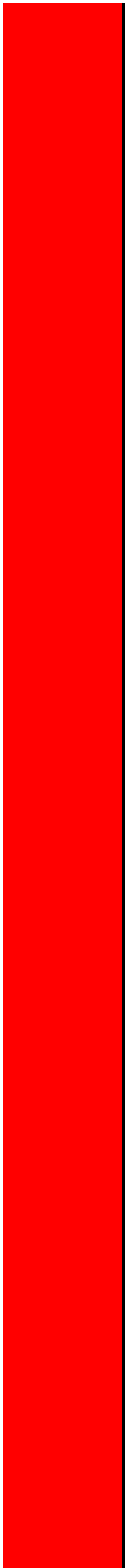


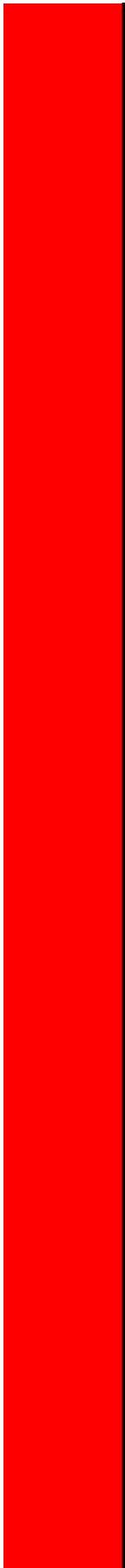


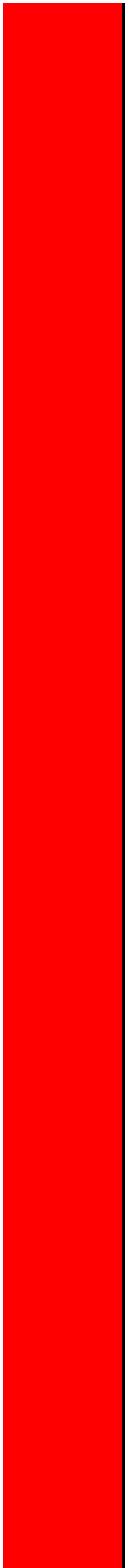


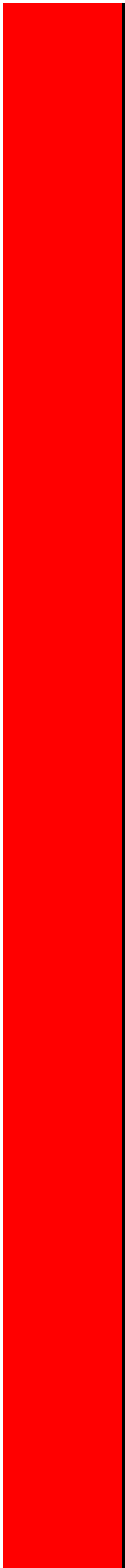




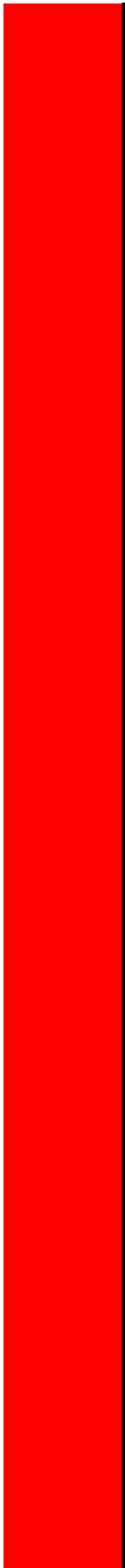


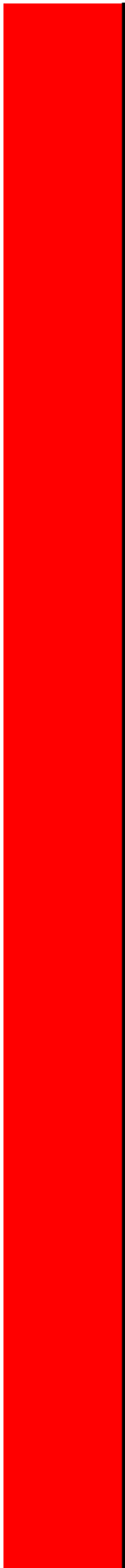


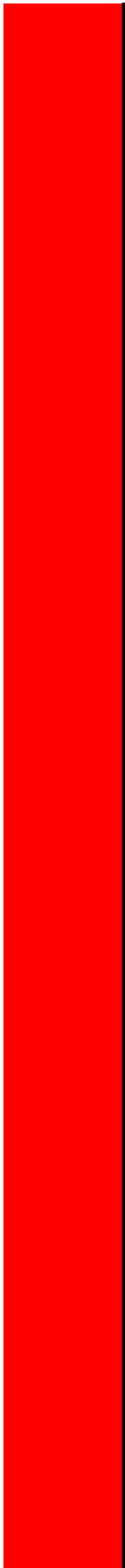


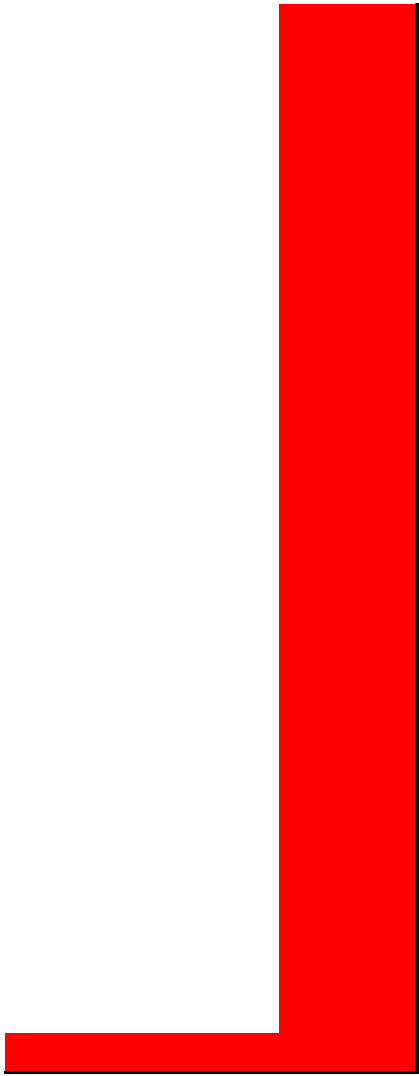












List of Win Conditions	Score
Threaded conversations between teachers recorded per student.	0.296870
Quantify amount of work done in class.	0.400085
Performance meter: per grade and school-wide	0.409891
Performance meter: credit to age ratio deficient	0.418436
Calculate missed days, instructional minutes, and dollar amount.	0.455122
Performance meter: track A - G progress.	0.457225
Behavior referrals section.	0.457916
Performance meter: number of maths, sciences, and english classes left.	0.468376
Achievement awards section.	0.470336
Convert number of missing assignments into percentage of grade lost.	0.479101
Want 5 - 10 seconds response time.	0.496856
Report on students who have multiple Ds and Fs.	0.522709
Teacher communication via email, maybe text	0.563386
Attendance by student, class, grade level, school	0.577206
Interface with Another Team	0.603233
Teacher training session	0.609031
Real-time data entry feedback	0.652775
Deployment to the existing web server	0.667476
EZ Grade Pro Interface	0.690433
5 Security Levels	0.703523
Reservation Page	0.727893
Import Easy Grade Pro data to our system.	0.760431
Budget Requirements	0.784722
At the end of each 5 week term, show cumulative credits on all progress reports.	0.788149
Pie Chart for Category Weights	0.794533
Show missing assignments for all classes.	0.803034
Required Statistical Data	0.834281
Monthly and per-term aggregation	0.834281
Project must be completed within 24 weeks.	0.839515
6 Minutes Max Response Time	0.863388
Keep track of parent notifications	0.867623
Show prototype to all teachers to get feedback	0.885180
Scatterplots for student comparison	0.885180
Require School Codes	0.885180
IE, Chrome, Firefox Support	0.890705
Students should be able to see their rank.	0.891406
Daily Performance Report	0.919856
Teacher: absences/tardies per class monthly (track trend over time).	0.941202
Must support 300-1000 students.	0.955649
Student-understandable data	0.992506

Select both columns on right and insert a chart of your choice:  
Suggested Bar/Column - You may want to sort by 'Score' when creating the chart

